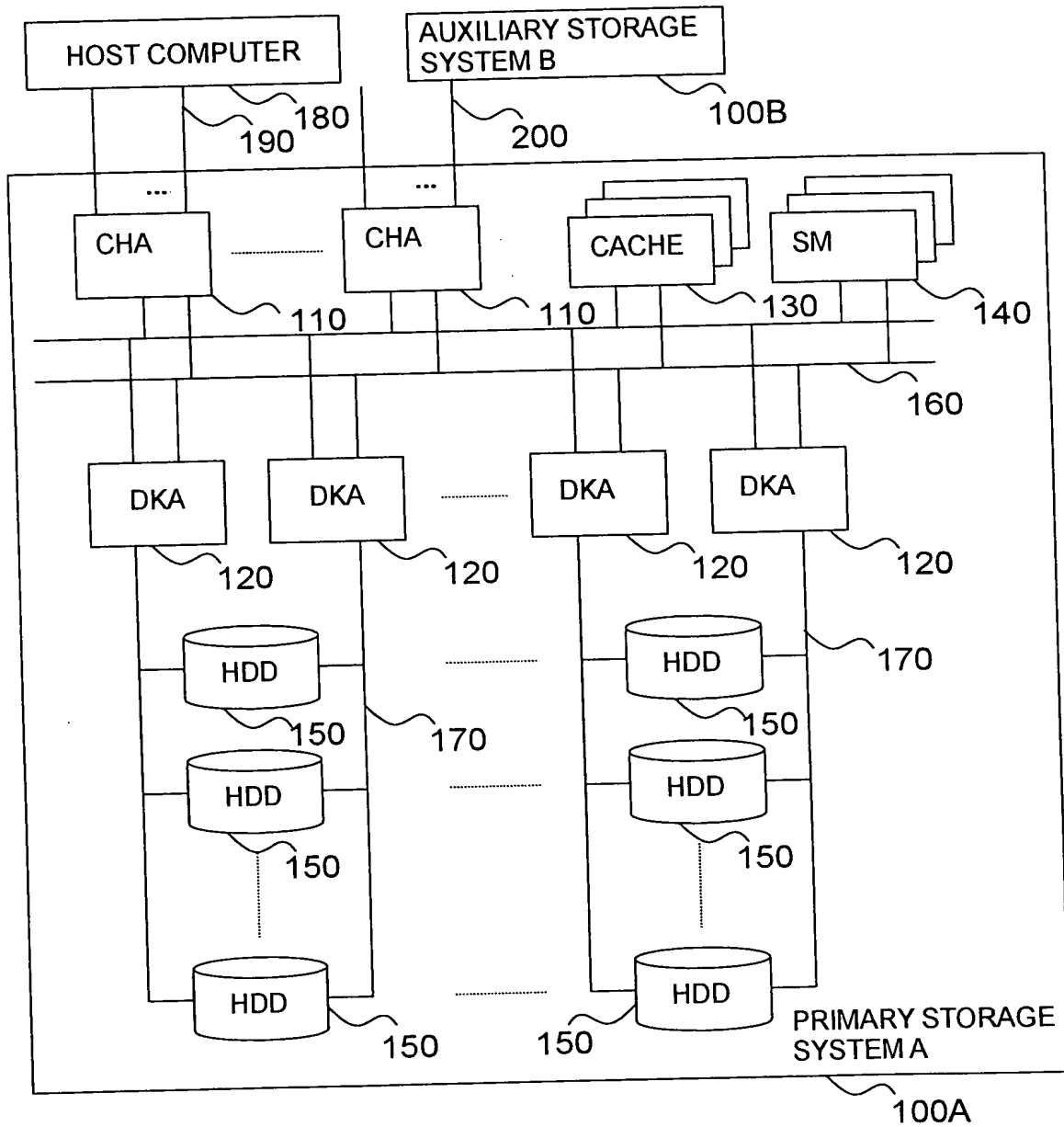


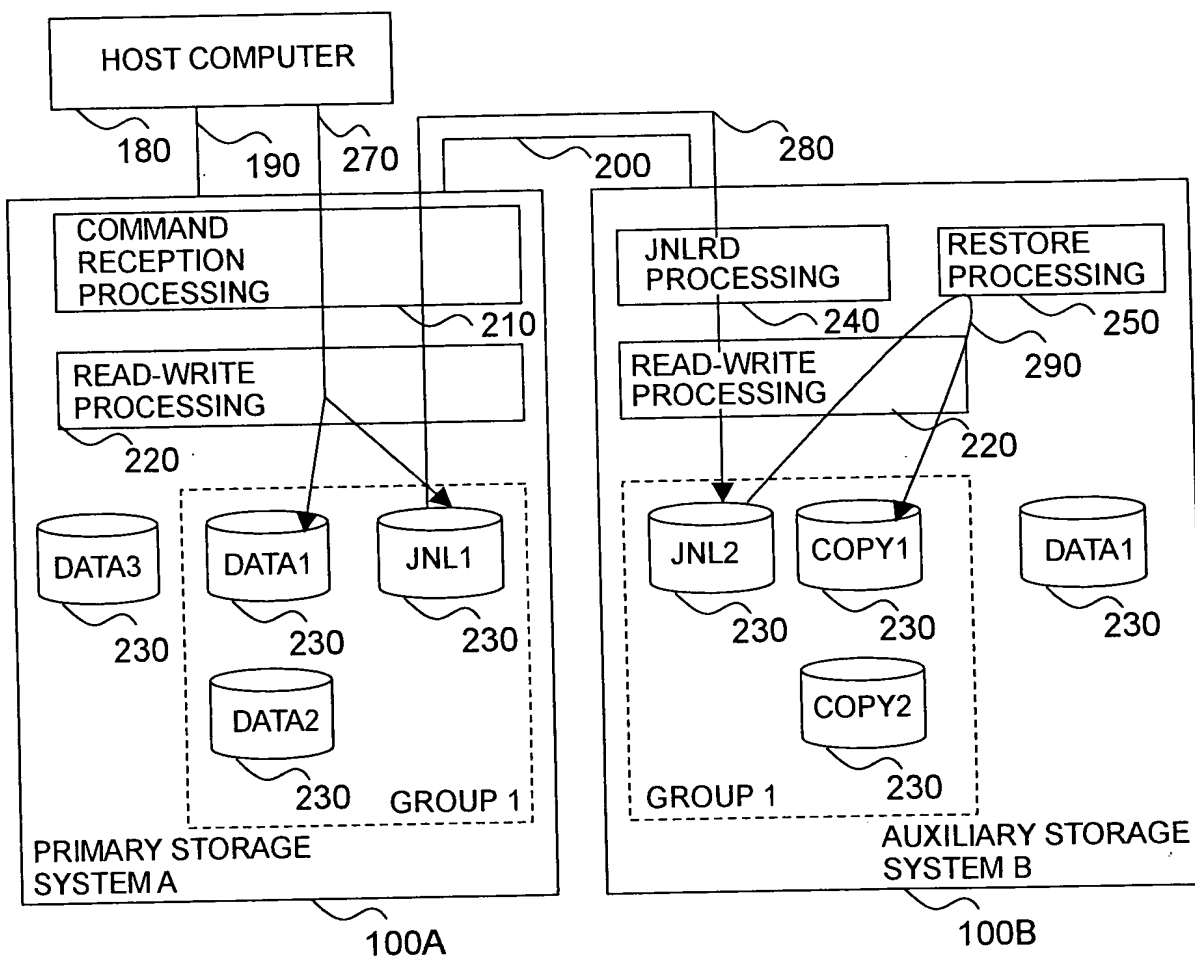
1/25

FIG. 1



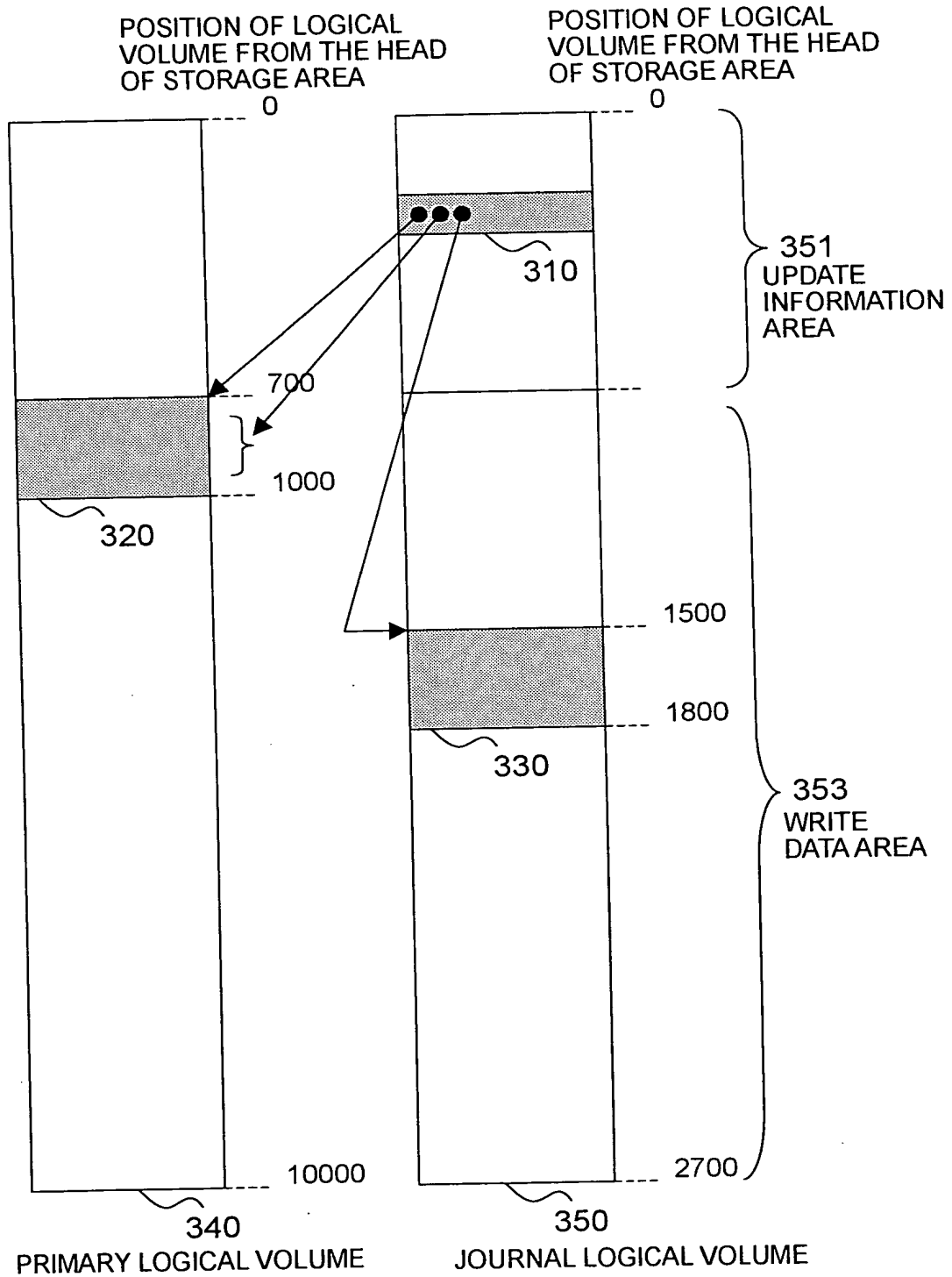
2/25

FIG. 2



3/25

FIG. 3



4/25

FIG. 4

SET ITEM	SETTING VALUE EXAMPLE
TIME OF WRITE COMMAND RECEPTION	1993/3/17, 22:20:10
GROUP NUMBER	1
UPDATE NUMBER	4
LOGICAL ADDRESS OF WRITE COMMAND	LOGICAL VOLUME NUMBER: 1 LOCATION OF LOGICAL VOLUME FROM HEAD OF STORAGE AREA: 700
DATA SIZE OF WRITE DATA	300
LOGICAL ADDRESS OF JOURNAL LOGICAL VOLUME STORING THE WRITE DATA	LOGICAL VOLUME NUMBER: 4 LOCATION OF LOGICAL VOLUME FROM HEAD OF STORAGE AREA: 1500

310

UPDATE INFORMATION

FIG. 5

LOGICAL VOLUME NUMBER	VOLUME STATE	FORMAT SYSTEM	CAPACITY (GB)	PAIR NUMBER	PHYSICAL ADDRESS	
					STORAGE DEVICE NUMBER	LOCATION FROM THE HEAD
1	NORMAL	OPEN3	3	1	1	0
2	NORMAL	OPEN6	6	2	1	3
3	UNUSED	OPEN6	6	0	1	9
4	NORMAL	OPEN9	9	0	2	0
5	NORMAL	OPEN3	3	0	2	9
6	UNUSED	OPEN6	6	0	2	12

400

VOLUME INFORMATION

5/25

FIG. 6

PAIR NUMBER	PAIR STATE	PRIMARY STORAGE SYSTEM NUMBER	PRIMARY LOGICAL VOLUME NUMBER	AUXILIARY STORAGE SYSTEM NUMBER	AUXILIARY LOGICAL VOLUME NUMBER	GROUP NUMBER	COPY COMPLE- TION ADDRESS
1	NORMAL	1	1	2	1	1	0
2	NORMAL	1	2	2	3	1	0
3	UNUSED	0	0	0	0	0	0
4	UNUSED	0	0	0	0	0	0
5	UNUSED	0	0	0	0	0	0

500 PAIR INFORMATION

FIG. 7

GROUP NUMBER	GROUP STATE	PAIR SET	JOURNAL LOGICAL VOLUME NUMBER	UPDATE NUMBER
1	NORMAL	1,2	4	4
2	UNUSED	0	0	0

600
GROUP INFORMATION

6/25

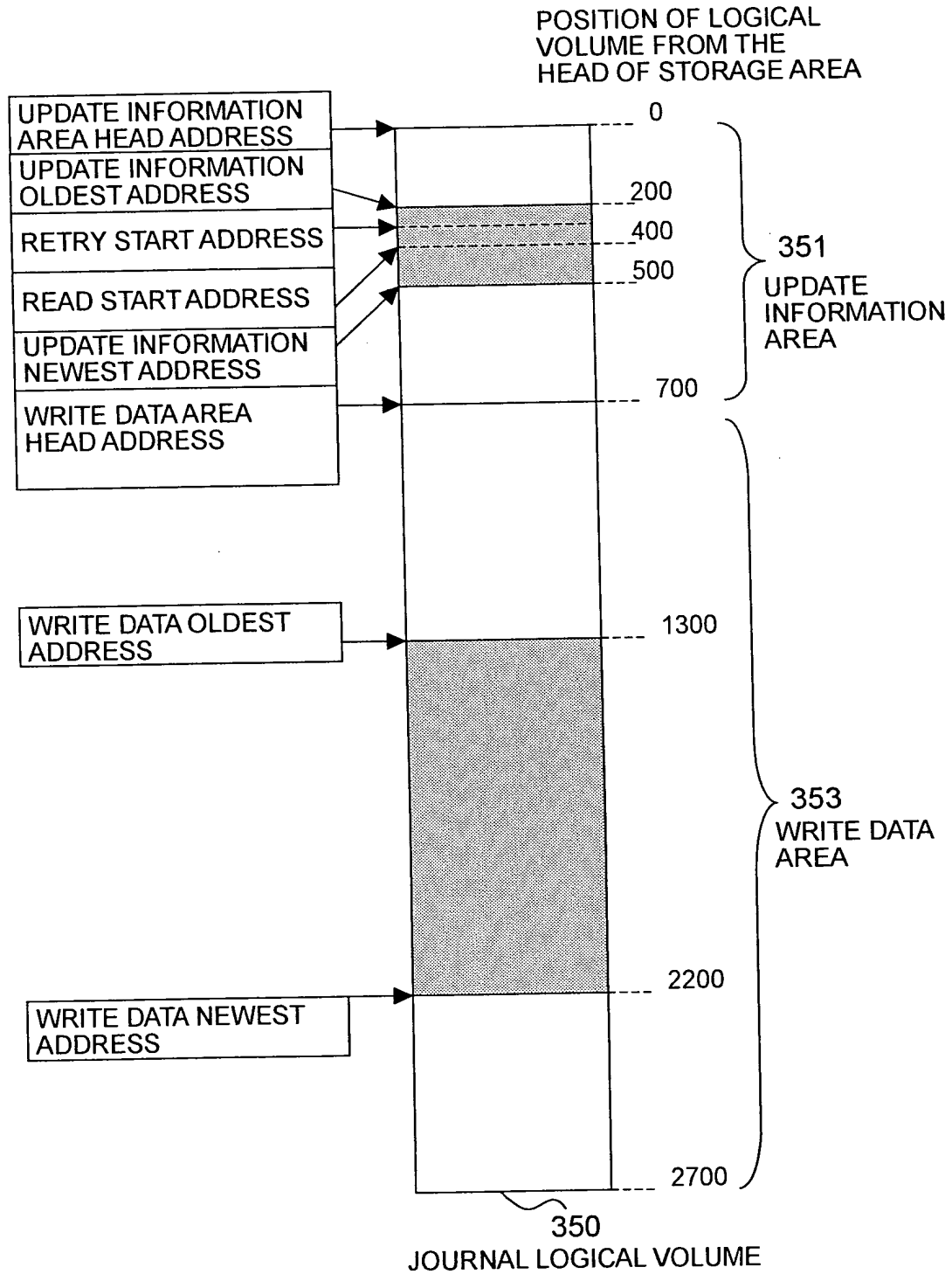
FIG. 8

	AUXILIARY STORAGE SYSTEM NUMBER	LOGICAL ADDRESS	
		LOGICAL VOLUME NUMBER	POSITION OF LOGICAL VOLUME FROM THE HEAD OF STORAGE AREA
UPDATE INFORMATION AREA HEAD ADDRESS	2	4	0
WRITE DATA AREA HEAD ADDRESS	2	4	700
UPDATE INFORMATION NEWEST ADDRESS	2	4	500
UPDATE INFORMATION OLDEST ADDRESS	2	4	200
WRITE DATA NEWEST ADDRESS	2	4	2200
WRITE DATA OLDEST ADDRESS	2	4	1300
READ START ADDRESS	2	4	400
RETRY START ADDRESS	2	4	300

700 POINTER INFORMATION

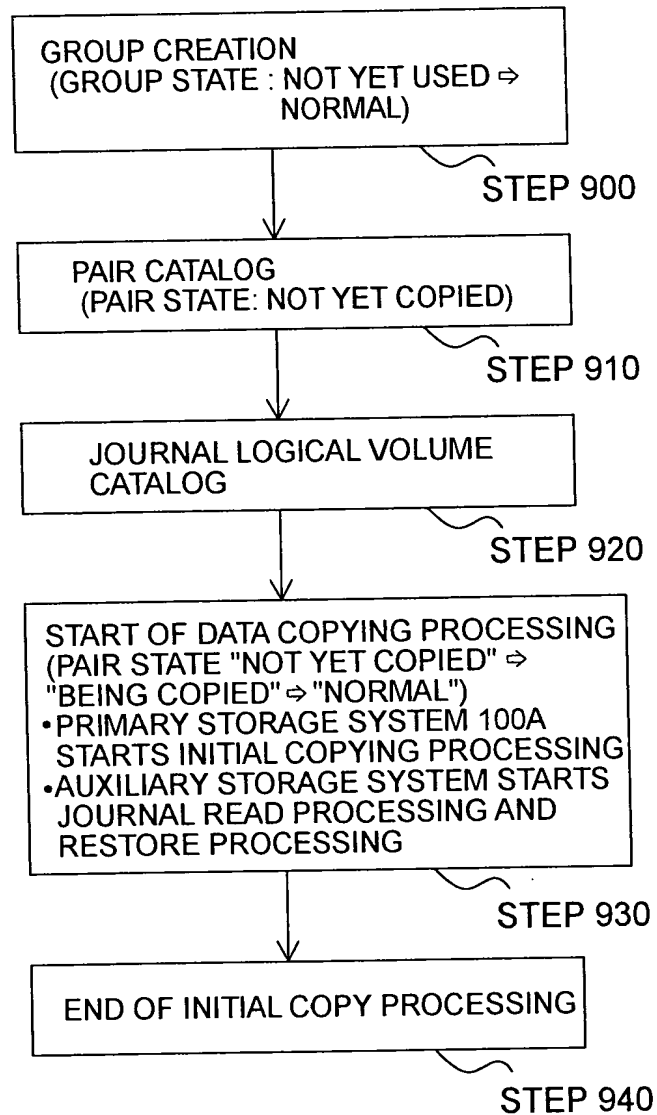
7/25

FIG. 9



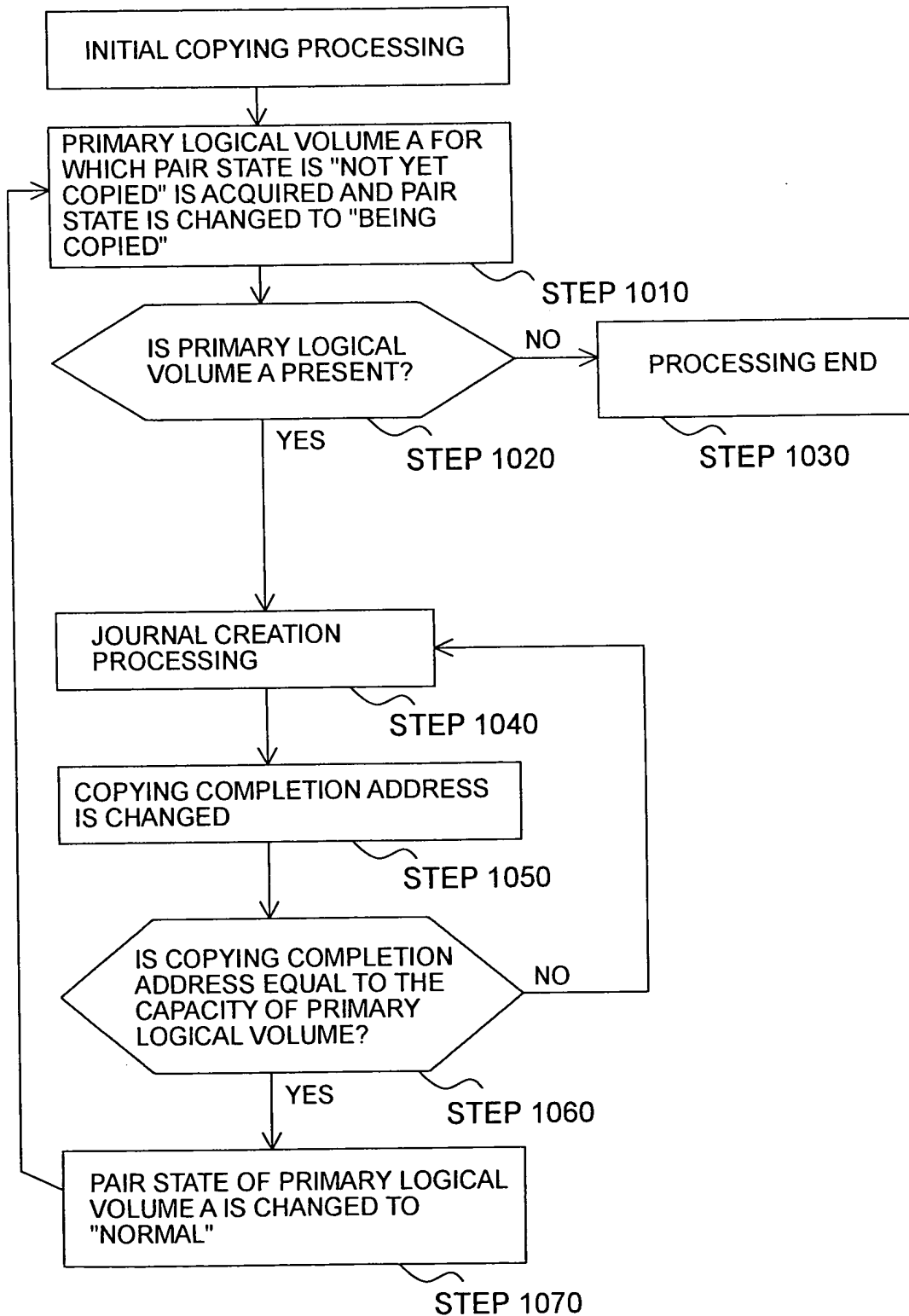
8/25

FIG. 10



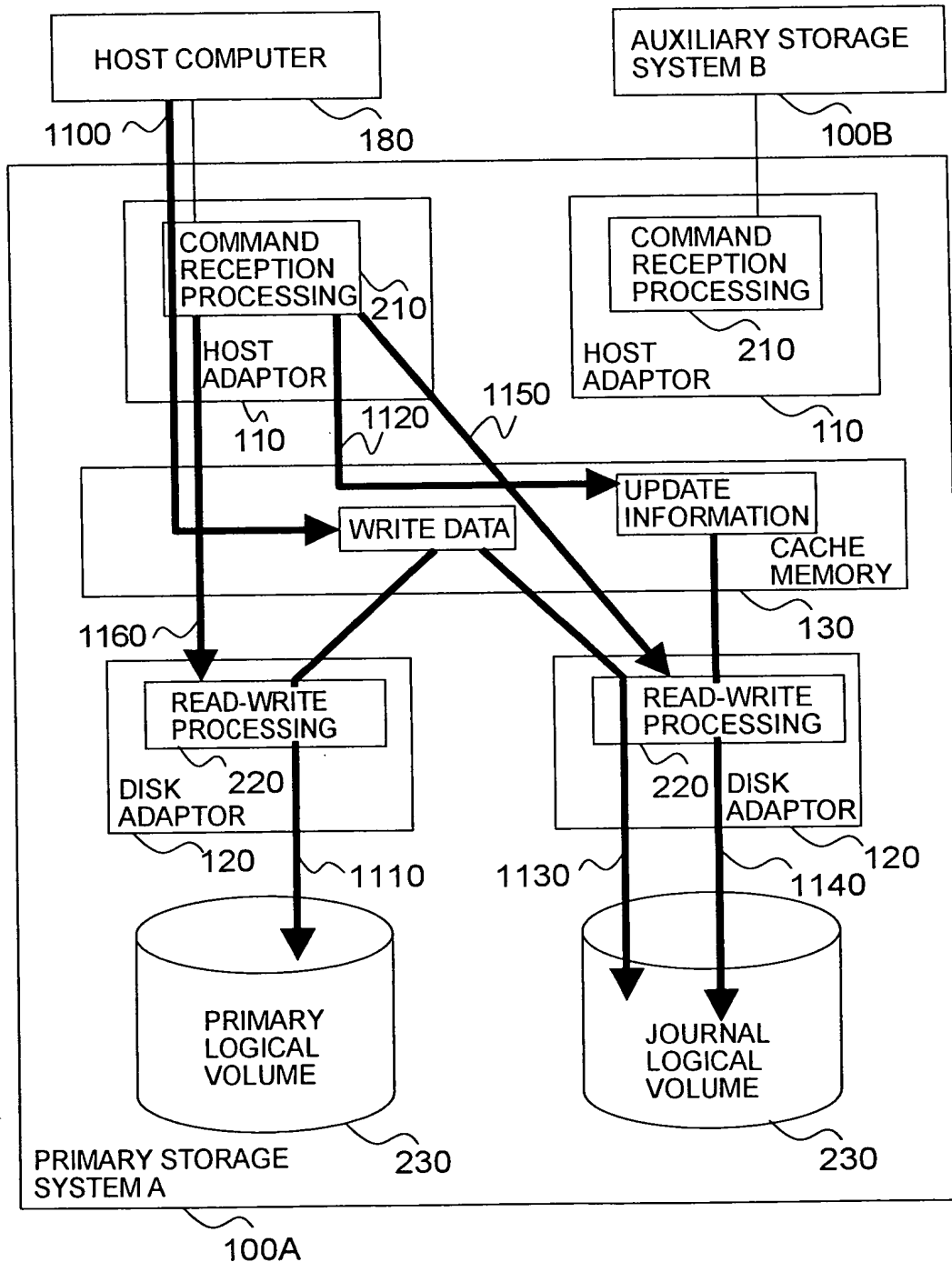
9/25

FIG. 11



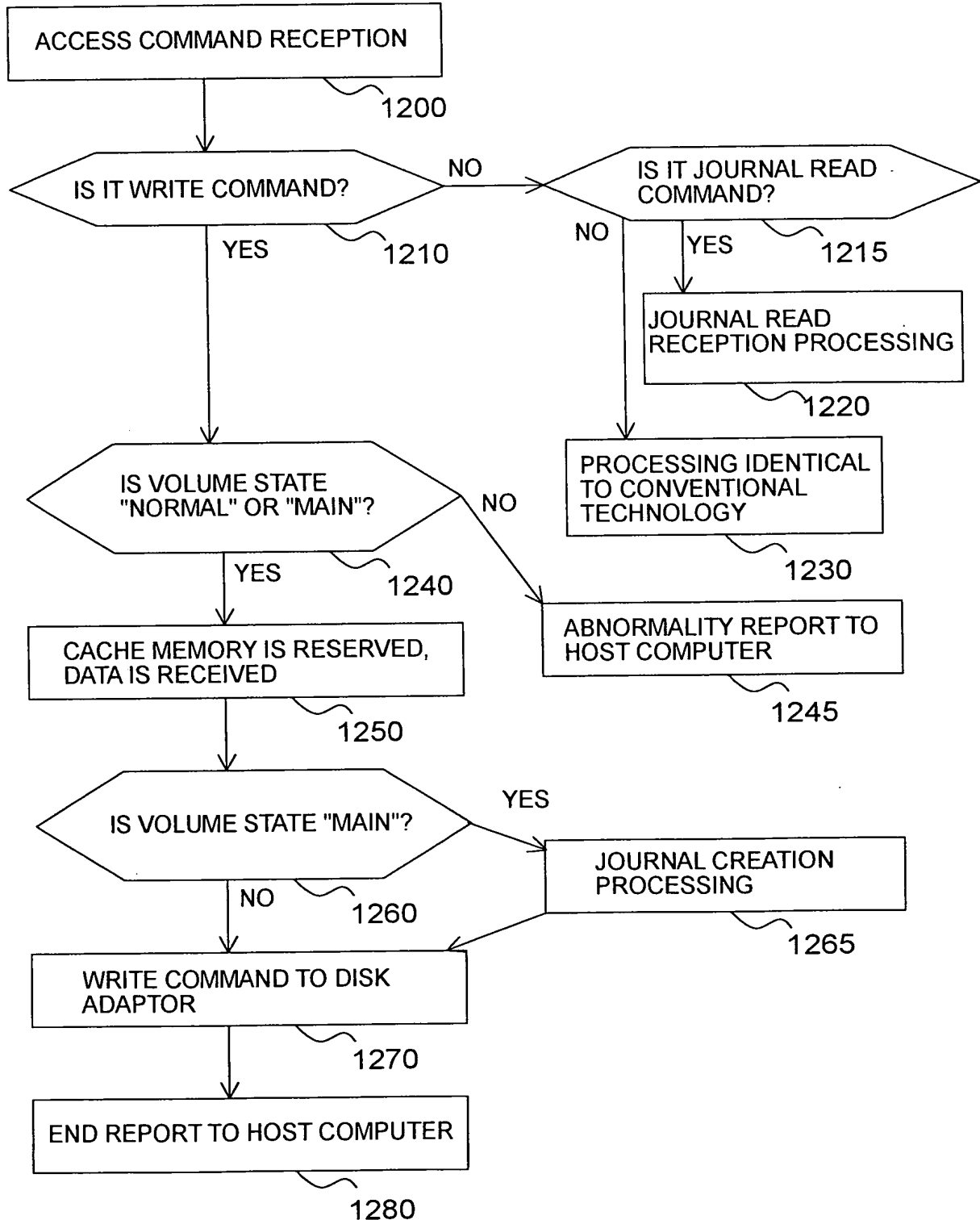
10/25

FIG. 12



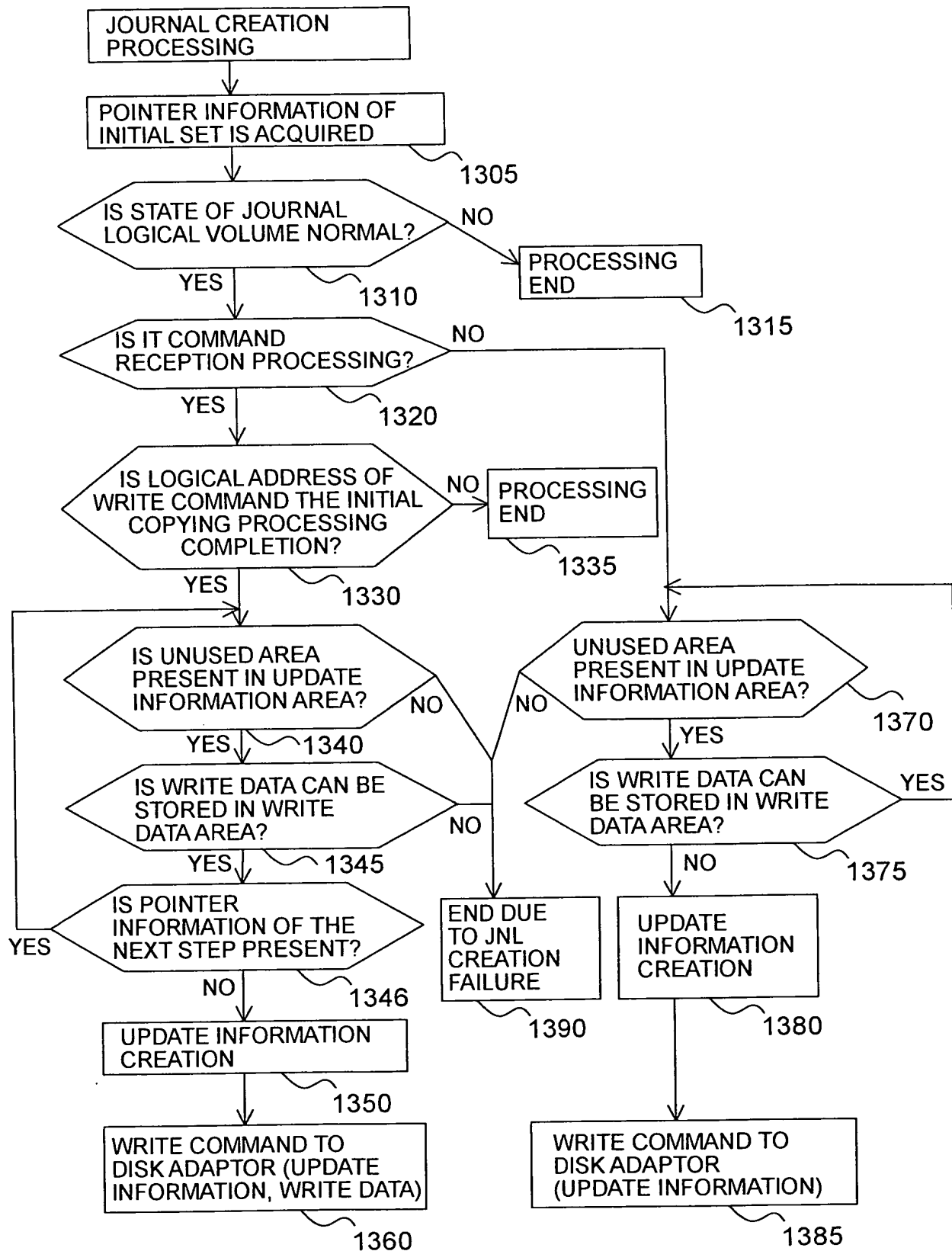
11/25

FIG. 13



12/25

FIG. 14



13/25

FIG. 15

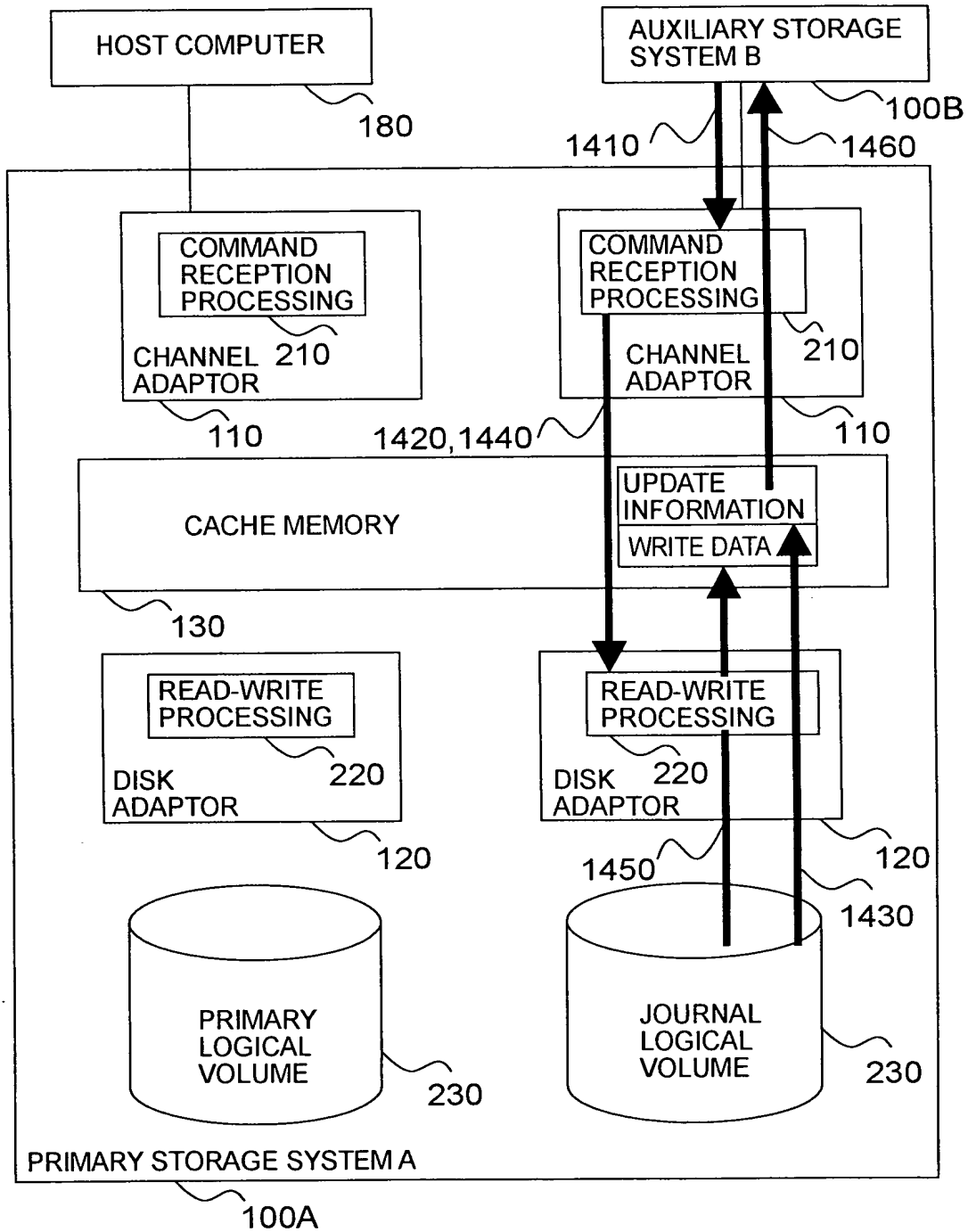
SET ITEM	SETTING VALUE EXAMPLE
TIME OF WRITE COMMAND RECEPTION	1993/3/17, 22:22:10
GROUP NUMBER	1
UPDATE NUMBER	4
LOGICAL ADDRESS OF WRITE COMMAND	LOGICAL VOLUME NUMBER: 1 LOCATION OF LOGICAL VOLUME FROM HEAD OF STORAGE AREA: 800
DATA SIZE OF WRITE DATA	100
LOGICAL ADDRESS OF JOURNAL LOGICAL VOLUME STORING THE WRITE DATA	LOGICAL VOLUME NUMBER: 4 LOCATION OF LOGICAL VOLUME FROM HEAD OF STORAGE AREA: 2200

310

UPDATE INFORMATION

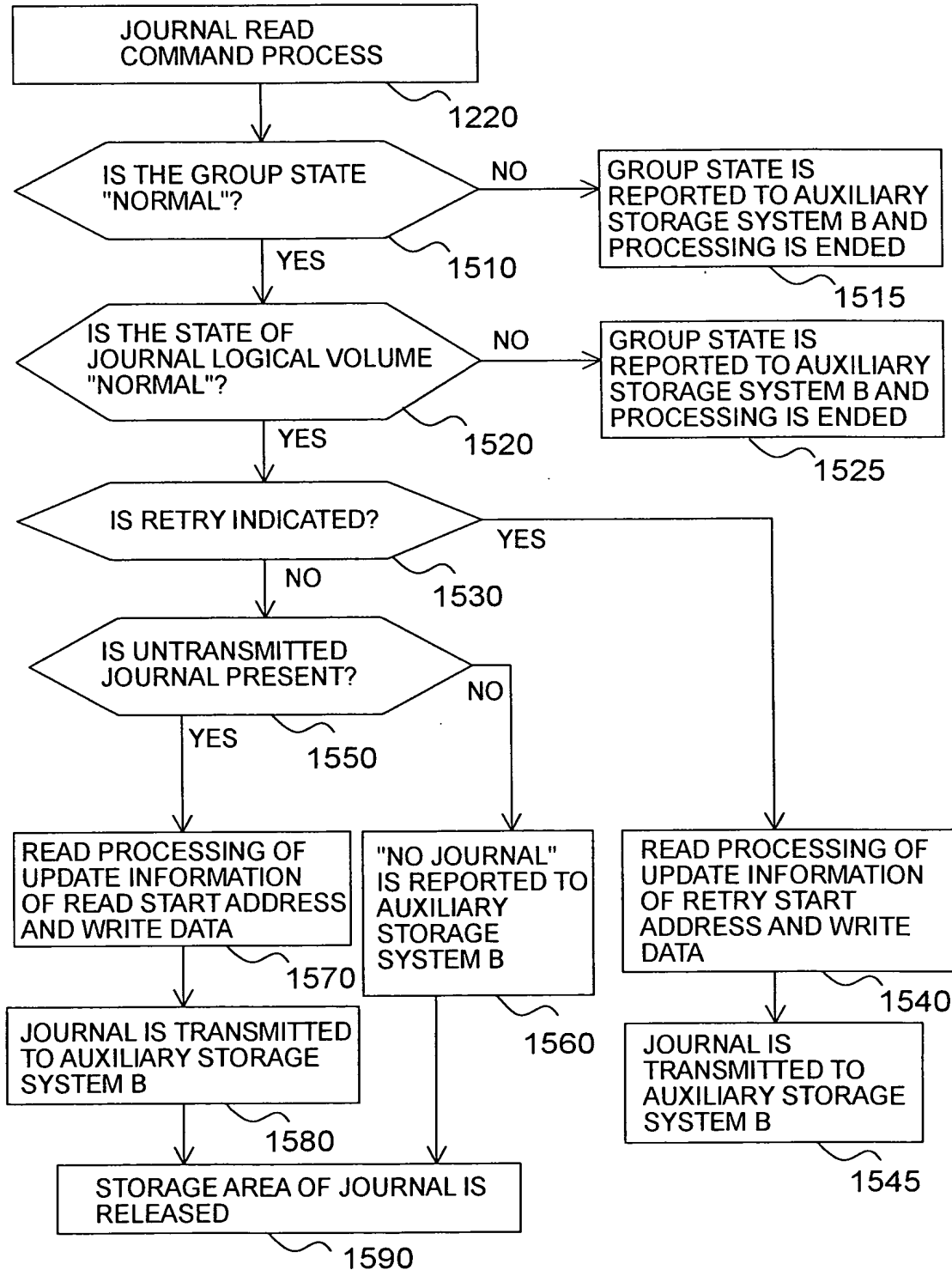
14/25

FIG. 16



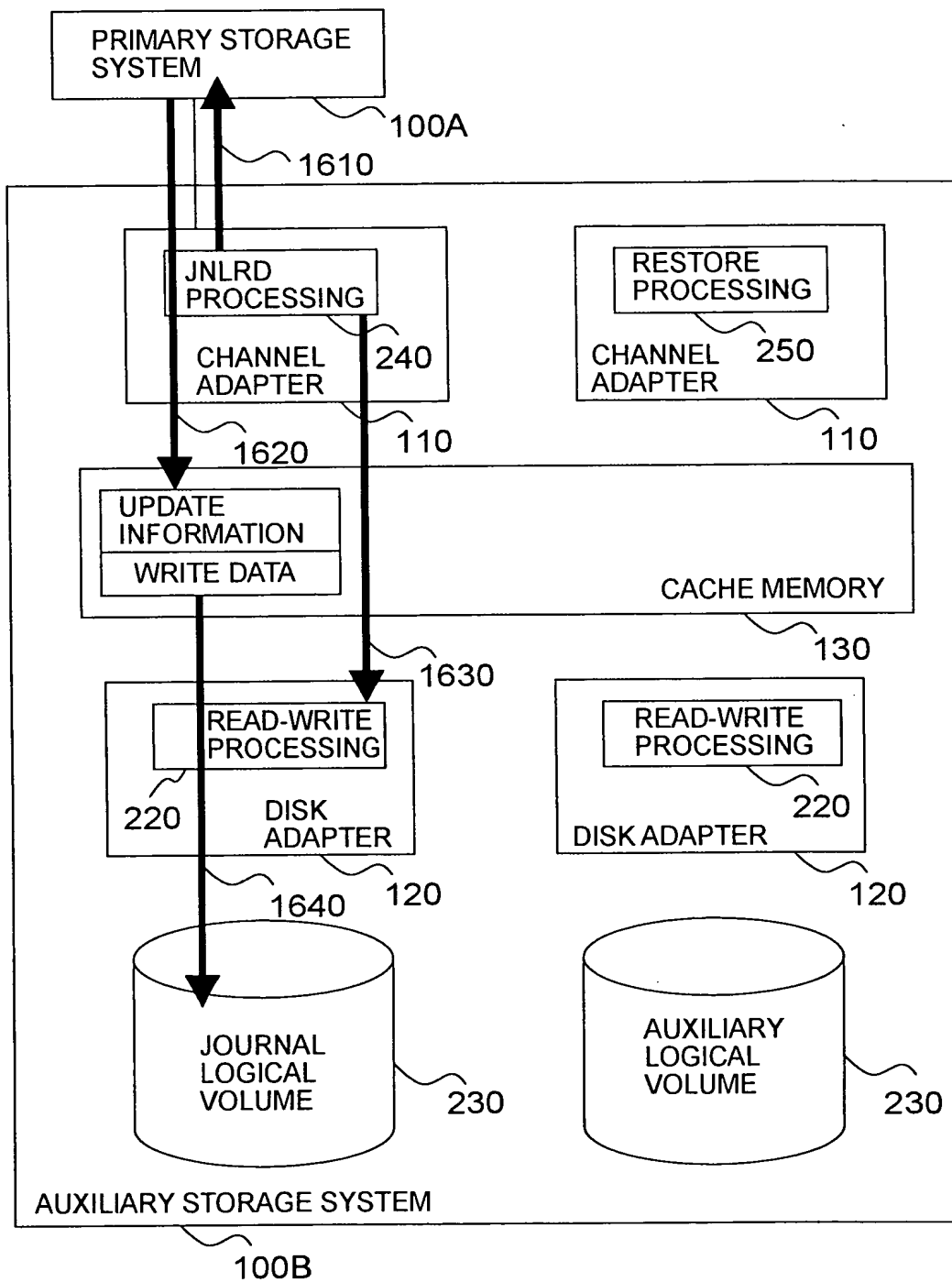
15/25

FIG. 17



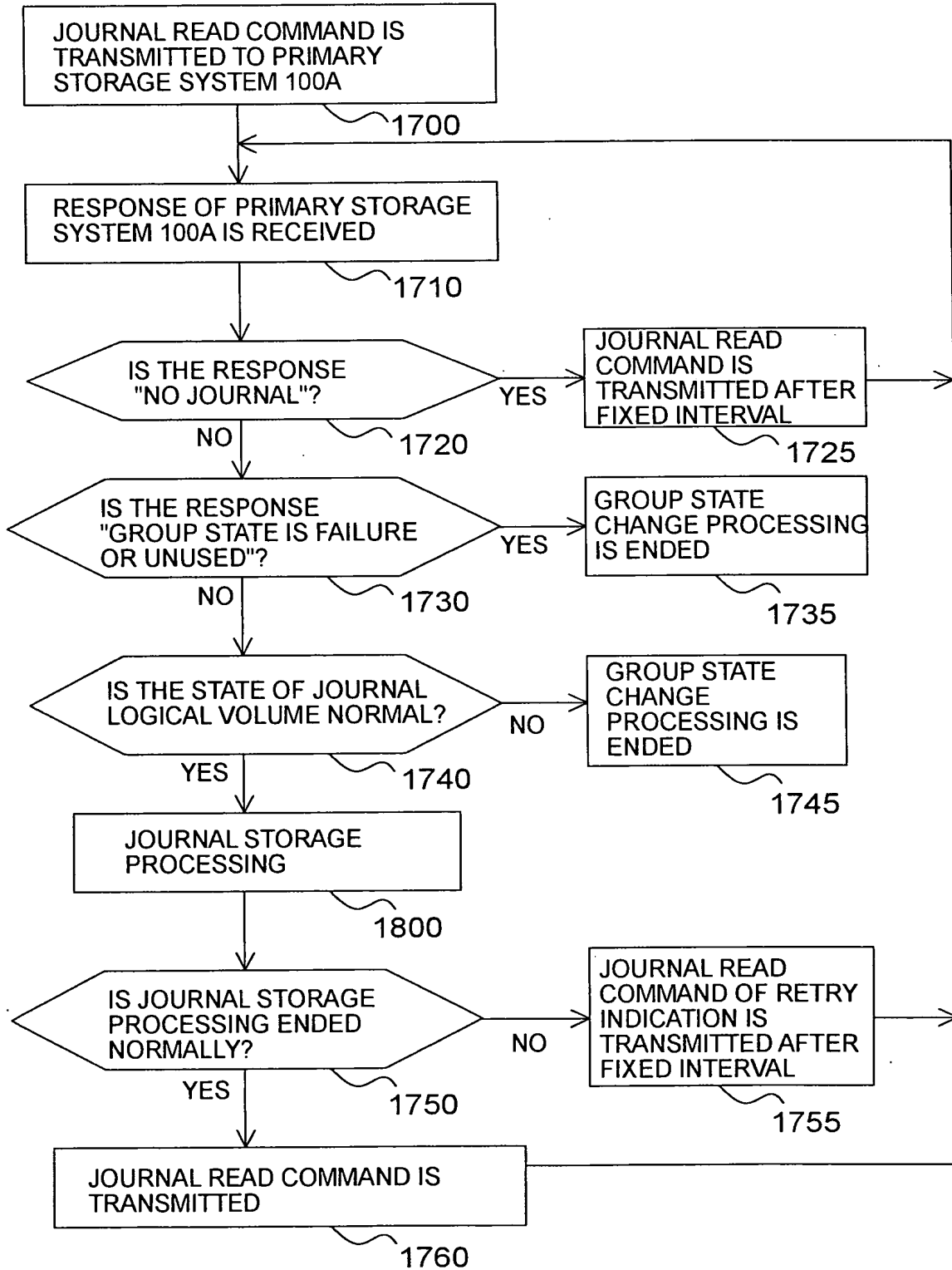
16/25

FIG. 18



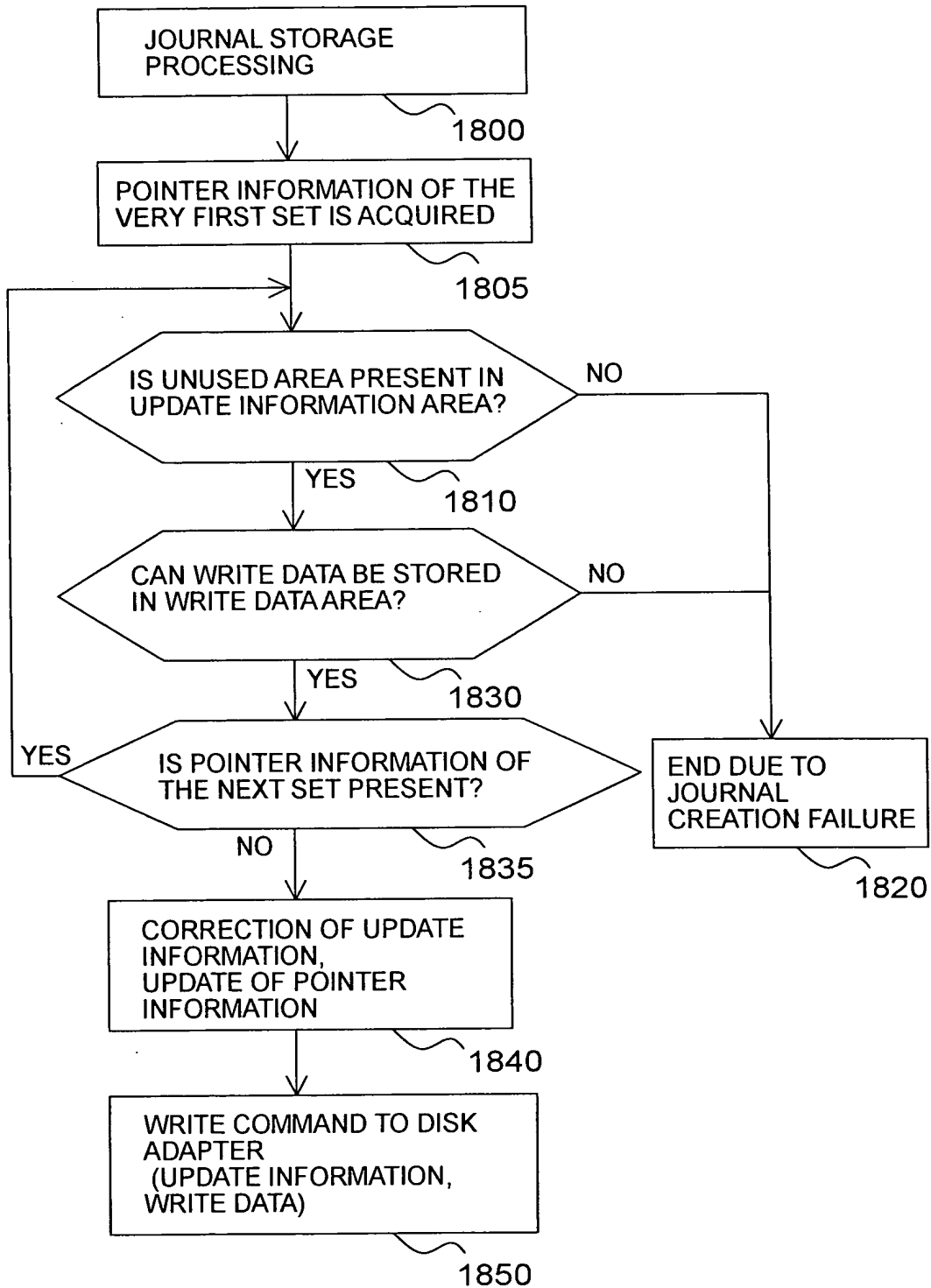
17/25

FIG. 19



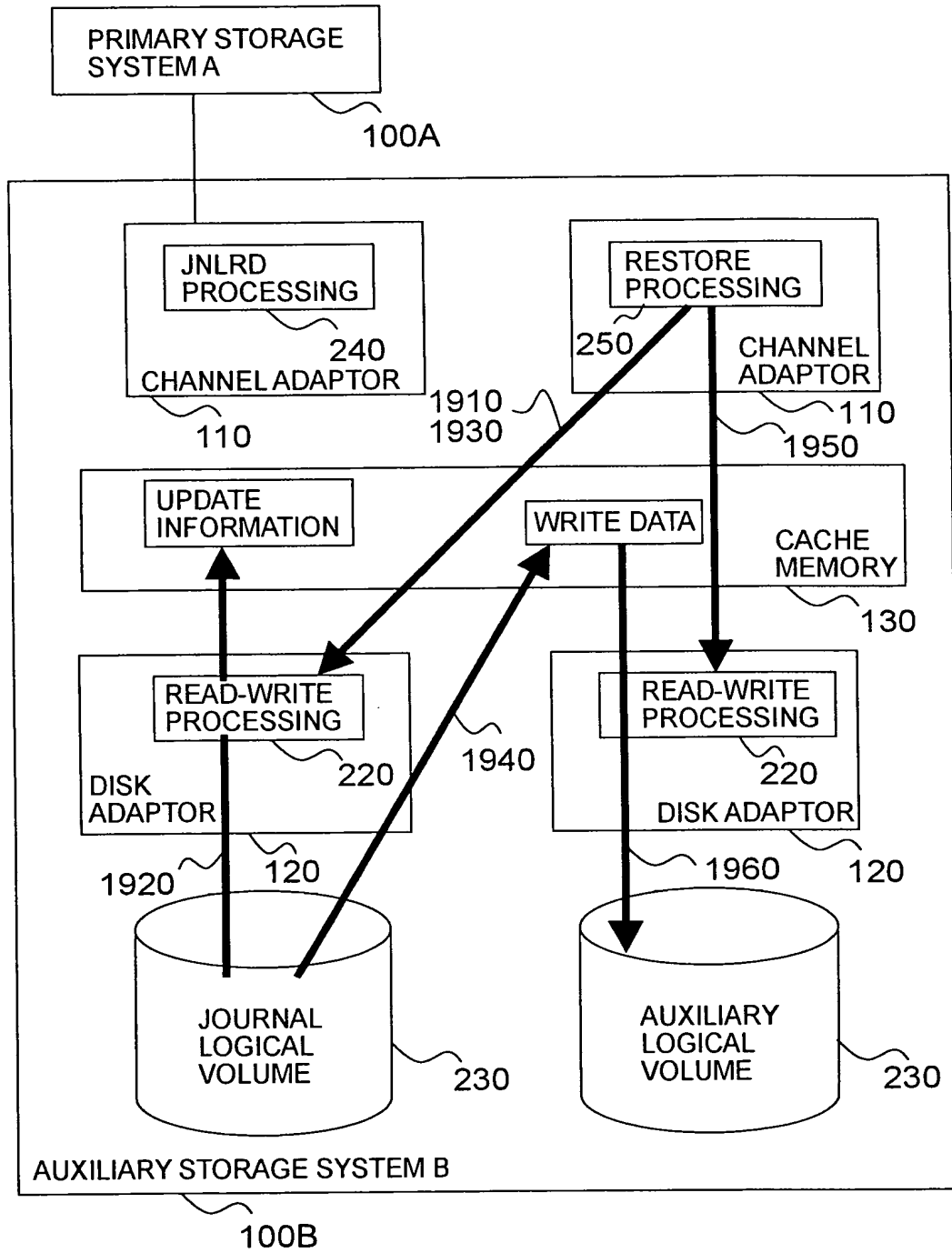
18/25

FIG. 20



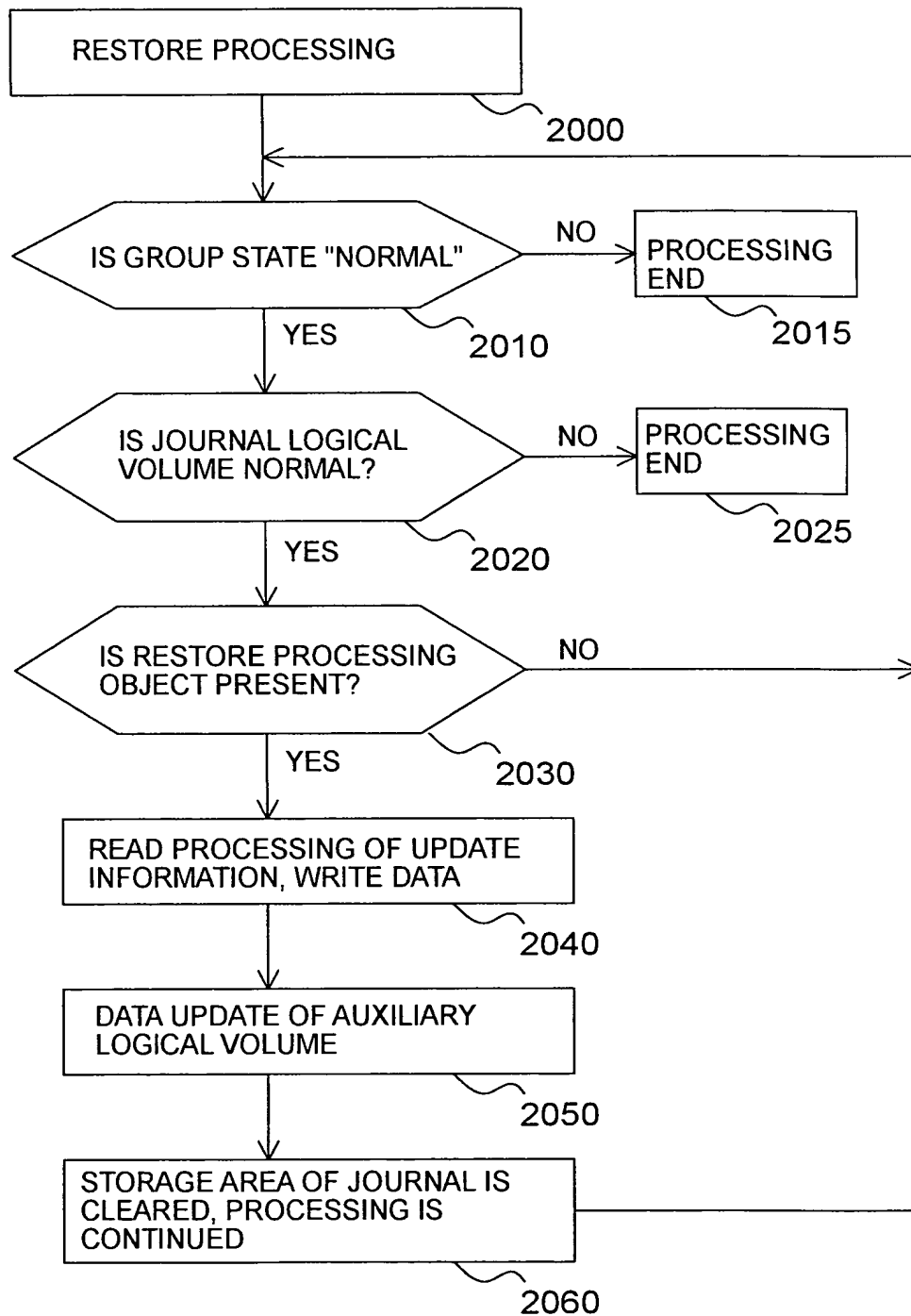
19/25

FIG. 21



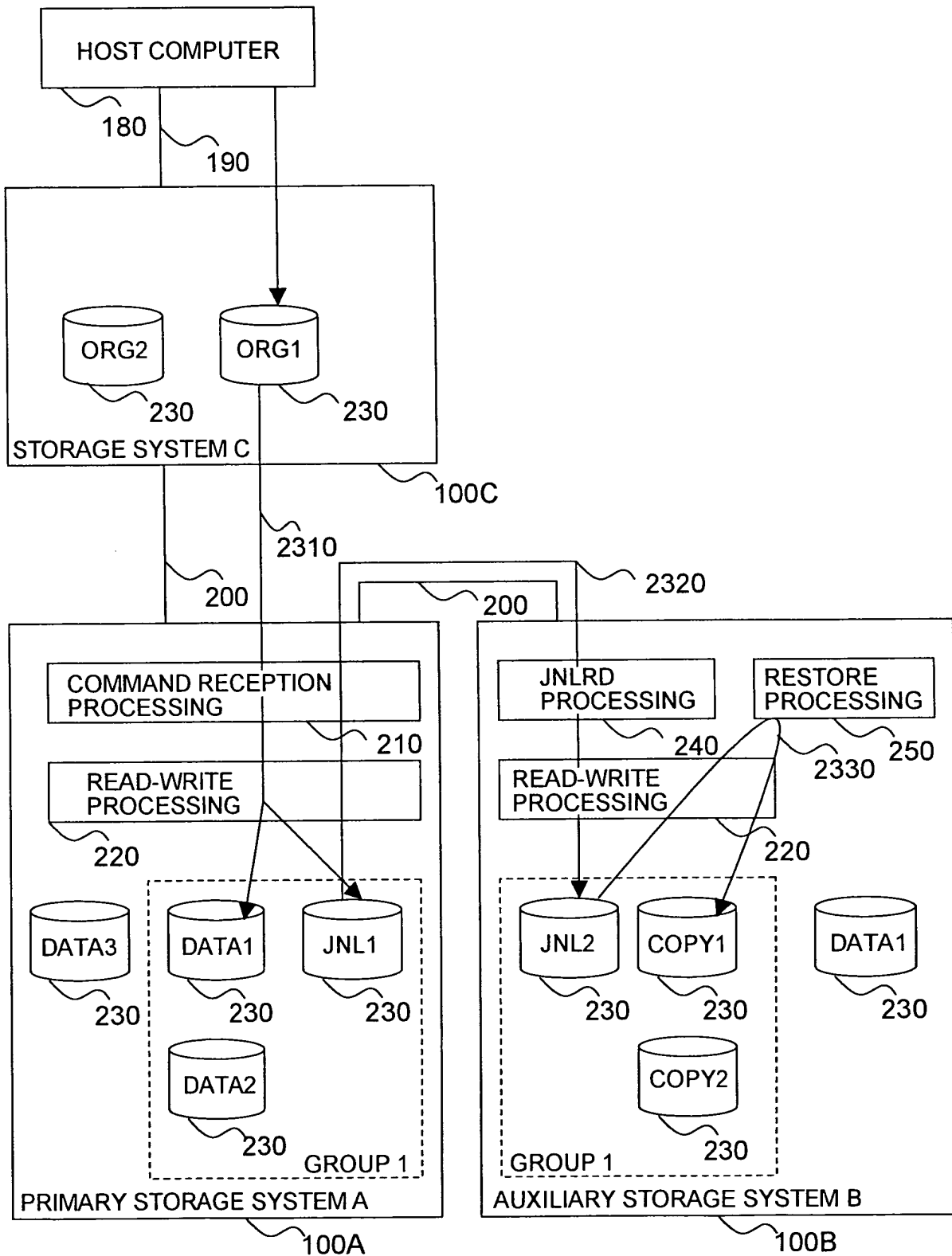
20/25

FIG. 22



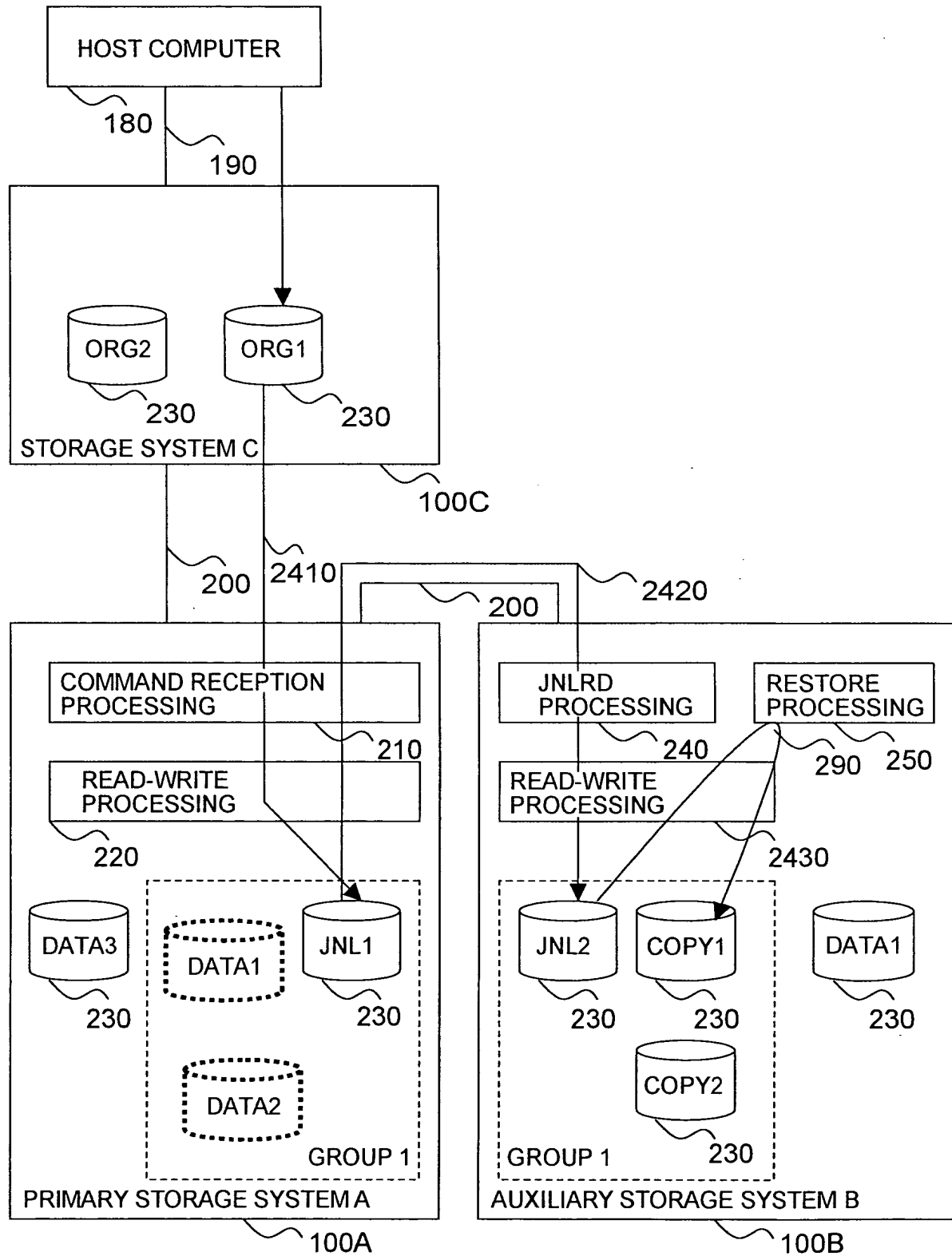
21/25

FIG. 23



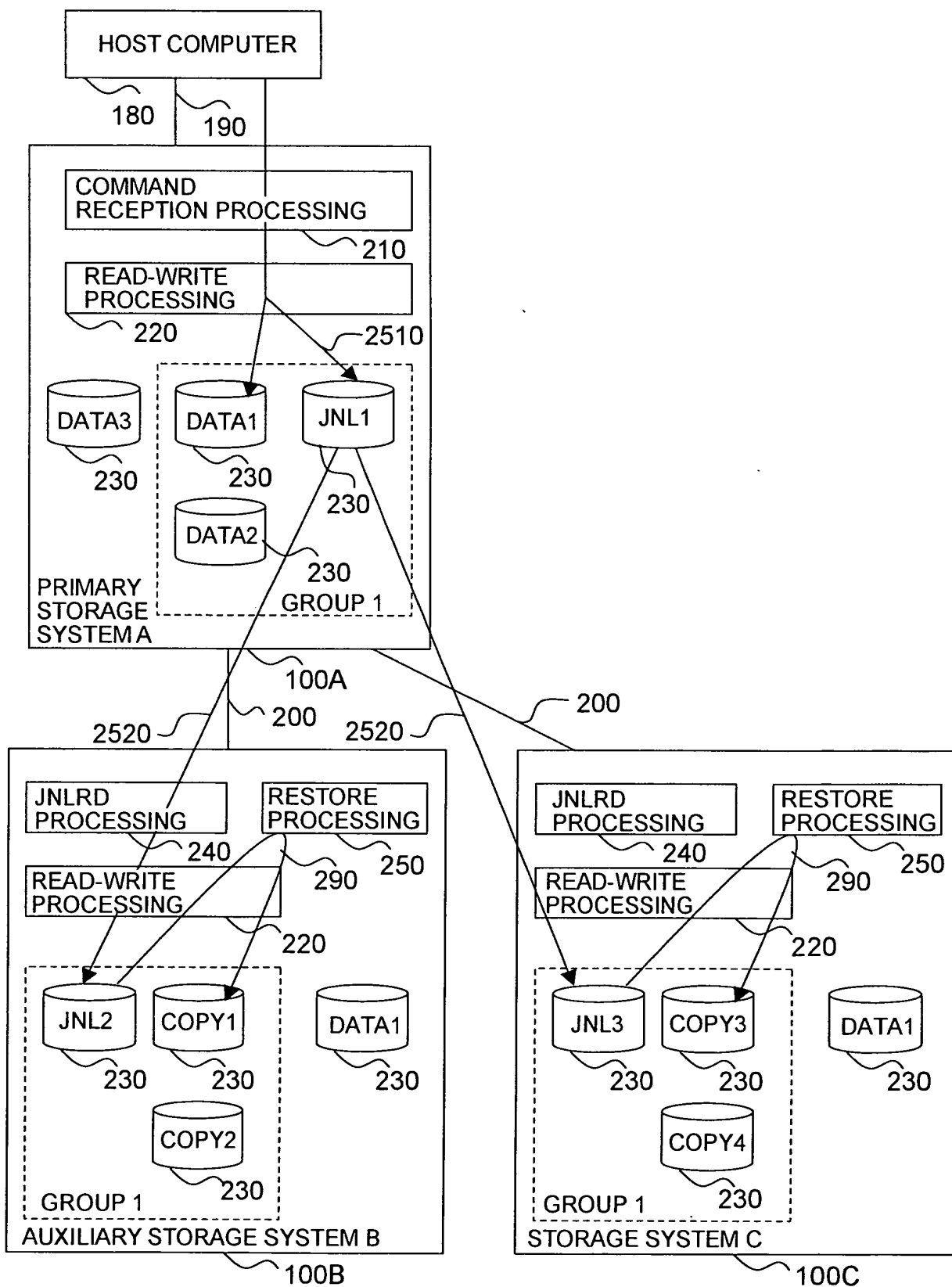
22/25

FIG. 24



23/25

FIG. 25



24/25

FIG. 26

	AUXILIARY STORAGE SYSTEM NUMBER	LOGICAL ADDRESS	
		LOGICAL VOLUME NUMBER	POSITION OF LOGICAL VOLUME FROM THE HEAD OF STORAGE AREA
UPDATE INFORMATION AREA HEAD ADDRESS	2	4	0
WRITE DATA AREA HEAD ADDRESS	2	4	700
UPDATE INFORMATION NEWEST ADDRESS	2	4	500
UPDATE INFORMATION OLDEST ADDRESS	2	4	200
WRITE DATA NEWEST ADDRESS	2	4	2200
WRITE DATA OLDEST ADDRESS	2	4	1300
READ START ADDRESS	2	4	400
RETRY START ADDRESS	2	4	300

700B POINTER INFORMATION

	AUXILIARY STORAGE SYSTEM NUMBER	LOGICAL ADDRESS	
		LOGICAL VOLUME NUMBER	POSITION OF LOGICAL VOLUME FROM THE HEAD OF STORAGE AREA
UPDATE INFORMATION AREA HEAD ADDRESS	3	4	0
WRITE DATA AREA HEAD ADDRESS	3	4	700
UPDATE INFORMATION NEWEST ADDRESS	3	4	500
UPDATE INFORMATION OLDEST ADDRESS	3	4	300
WRITE DATA NEWEST ADDRESS	3	4	2200
WRITE DATA OLDEST ADDRESS	3	4	1500
READ START ADDRESS	3	4	500
RETRY START ADDRESS	3	4	400

700C POINTER INFORMATION

25/25

FIG. 27

